

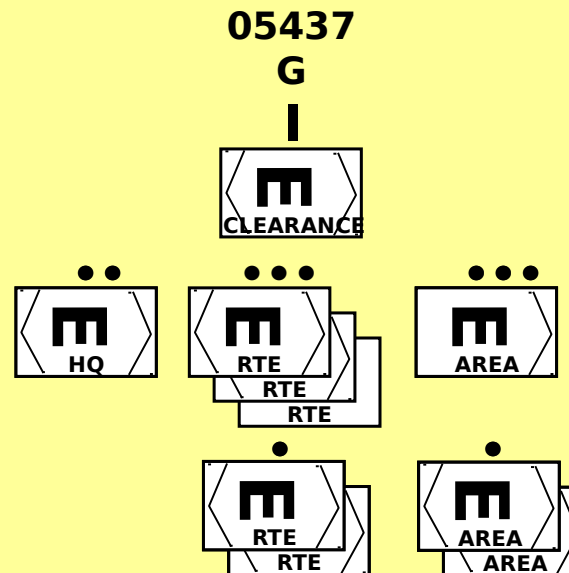


# Clearance Company

## CONCEPT

- Clearance Company conducts detection and neutralization of explosive hazards along routes and within areas in support of Support Brigades
- Provides Battle Command for 3-5 route, area, or sapper platoons operating as an Engineer Team
- Can clear a total of 255 km of two-way routes per day
- Can clear a total of 8093 m<sup>2</sup> per day
- Company supports Unit of Employment (X), Engineer Battalion, Support Brigade

## PROPOSE D





# Route Clearing Teams



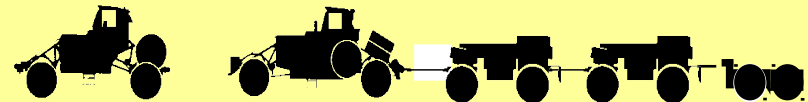


## Interim Vehicle Mounted Mine Detector (IVMMD)



### Status:

- Quantity: OEF 3; OIF 6 **(+30)**; MANSCEN 1 **(+1)**
- Delivered: 9 by 23 Dec 03
- Training: CSI
- Support: CLS by MANTECH
- Materiel Release: CECOM



- Continues to effectively protect Soldiers, multiple IED strikes
- Hull Integrity issues – Provided checklist, contract inspections?
- Training – MANSCEN must support sustainment training
- 2 ONS IVMMD
- 31 systems (29 OIF, 1 FLW, 1 Battle Loss)
- Detection of IEDs and/or Landmines on supply routes
- IVMMD called out by name as system that satisfies requirement



## Buffalo Heavy Mine Protected Clearance Vehicle (MPCV)



### Status:

- Quantity: OEF 5; OIF 14 (+12+**13**); MANSCEN (+2)
- Contract Award: Letter 11 May 04; Definitized 6 JAN 05; Letter 18 NOV 04
- Contract Delivery: Aug (2); Sep (4); Oct-Dec (5/mo); **Jan-Mar (5/mo); 2+ months slip**
- Support: CLS by MANTECH
- Training: ILS, MANTECH, and Unit
- Materiel Release: TACOM 24 Nov03,

update in progress

- OEM is Technical Solutions Group (TSG), Charleston, South Carolina with primary subs Mack (drive train) and South African procured armor hulls
- Issues: Delivery behind schedule; Production problems in integration and manufacturing; Supply parts responsiveness; design stability; configuration control
- 3 ONS Buffalo
  - 30 lb Protection throughout the vehicle
  - 7.62 mm ballistic protection (7.62 AP will be specified per agreement with ATEC)
  - Enhanced visibility over other armored vehicles and telescoping arm with remote camera to allow interrogation of suspected IEDs
  - ~~Street Wheels and Rollers for Area Clearance~~

ESSAYONS

"LET US TRY"





## RG-31 “Nyala” Medium Mine Protected Vehicle (MMPV)



### Status:

- Quantity: OEF 4 **(+16)**; OIF 2 (+2 in HK) **(+ 126); MANSCEN (6)**
- Contract Award: Letter Pending
- Delivery: 6 in APR, 12-22 / month
- Training: ILS and Unit
- Support: CLS by MANTECH
- Materiel Release: TACOM 22 Jul 03 (Urgent), **update in progress**
- OEM is BAE Landsystems, South Africa

- 2 ONS RG-31
- 148 units (125 OIF, 16 OEF, 6 FLW, 1 Battle Loss)
- 15 lbs. TNT Mine Blast protected throughout the vehicle
- 7.62 mm ballistic protection (7.62 AP will be specified per agreement with ATEC)
- Requirement is enhanced survivability, enhanced visibility and larger crew capacity over M1114 Up Armored HMMWV
- OIF ONS states RG-31 satisfies requirement



# Proven to provide the 80% solution







# Route Clearance Platoon

## CRITICAL COLLECTIVE TASKS:

**Conduct route reconnaissance.**

**Perform EN Recon. Conduct Minesweeping Operations.**

**Conduct deliberate route clearance. Clear Obstacles using demolitions. Clear obstacles with EN (Countermine) equipment.**

**Conduct Enemy or Unobserved Minefield Clearing Operations.**

## EFFECTS:

**Clear and mark 85 km (52 miles)**

**(daylight only) of route (4m width) per day (threat capability and terrain dependent)**

**Identify and neutralize mines, IEDs, and UXOs on routes**

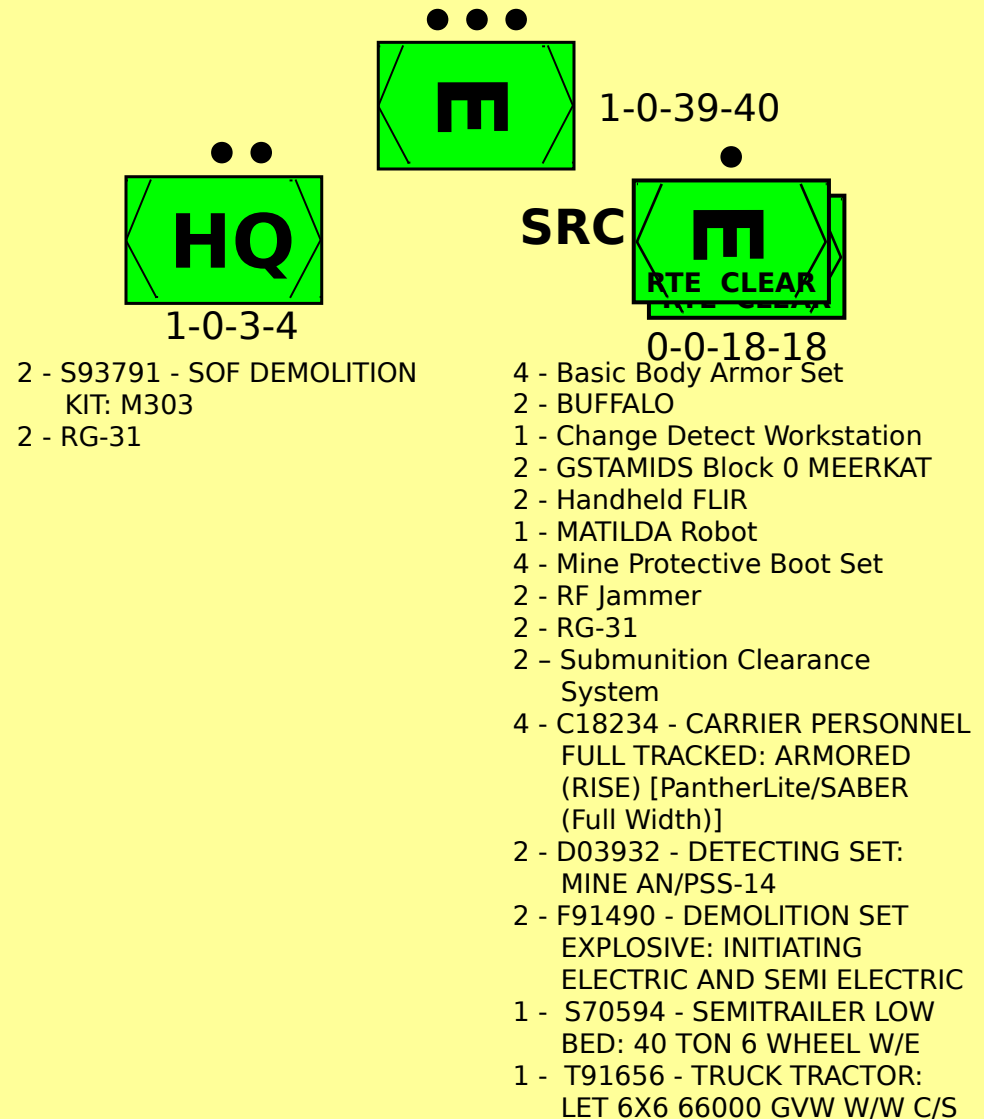
**Receive and analyze**

**GSTAMIDS/ASTAMIDS data from other units. (Provide digital hazard area data to other units at objective)**

**Fully mobile in theater utilizing organic assets only**

## CURRENT TOE EQUIVALENT:

### New Organization



\* Relies on external lift asset



# Area Clearance Platoon







# Area Clearance Platoon

## CURRENT TOE EQUIVALENT: New Organization

### CRITICAL COLLECTIVE TASKS:

Conduct area clearance. Perform EN Recon.

Clear Obstacles using demolitions.

Clear obstacles with EN

(Countermine) equipment.

Conduct Enemy or Unobserved

Minefield Clearing Operations.

Conduct Minesweeping Operations.

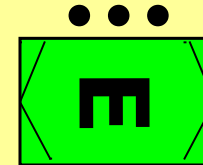
### EFFECTS:

Clear and proof .004 sq km (1 acre) per day of mines (buried and surface), IEDs and UXOs (daylight only)

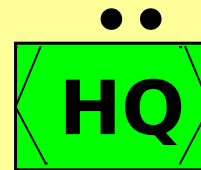
Casualty extraction from a explosive hazard area

Provide digital hazard area information to other units (objective)

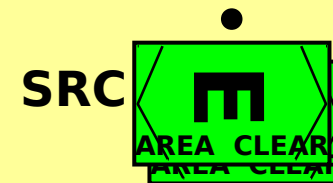
Fully mobile in theater utilizing organic assets only



1-0-31-32



1-0-3-4



0-0-14-14

2 - D03932 - DETECTING SET: MINE AN/PSS-14

1 - **S93791 - SOF DEMOLITION KIT: M303**

2 - T61494 - TRUCK UTILITY: CARGO/TROOP CARRIER 1-1/4 TON 4X4 W/E (HMMWV)

4 - Basic Body Armor Set

1 - **Light Flail**

1 - MCAP Kit (Cab, Rake, & Blade Reinforcement)

1 - **Medium Flail**

4 - Mine Protective Boot Set

2 - RG-31

1 - **Submunition Clearance System**

2 - **C18234 - CARRIER PERSONNEL FULL TRACKED: ARMORED (RISE) [PantherLite/SABER (Full Width)]\*\***

2 - D03932 - DETECTING SET: MINE AN/PSS-14

2 - **F91490 - DEMOLITION SET EXPLOSIVE: INITIATING ELECTRIC AND SEMI ELECTRIC**

2 - S70594 - SEMITRAILER LOW BED: 40 TON 6 WHEEL W/E

2 - T91656 - TRUCK TRACTOR: LET 6X6 66000 GVW W/W C/S

\* Relies on external lift asset

**DIRECTORATE OF COMBAT DEVELOPMENTS — ESSAYONS**

**LET US TRY**



# Materiel

- **Current.** Equivalent of three Clearing Companies and one training set procured under Operational Needs Statements
- **Near-Term.** Procure additional route clearing systems to complete four clearing companies, two institutional training sets, one training set at each Combat Training Center and one test set to accelerate type classification of Standard
- **Long-Term.** Document the requirement IAW the JCIDS in three Capability Production Documents.
  - Establish Program Objective Memorandum funding starting in 2008 to program funding for the remaining clearance companies approved in TAA-13



# The alternative

